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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,554	10/02/2003	Dirk Wiemeler	2001U-001638	9540
27572	7590	01/09/2006	EXAMINER	
HARNESSE, DICKEY & PIERCE, P.L.C.			SAN MARTIN, EDGARDO	
P.O. BOX 828			ART UNIT	
BLOOMFIELD HILLS, MI 48303			PAPER NUMBER	
			2837	

DATE MAILED: 01/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/677,554	Applicant(s) WIEMELER ET AL.	
	Examiner Edgardo San Martin	Art Unit 2837	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 6-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 6-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 6 – 9 and 12 – 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olszok et al. (US 5,821,474).

With respect to claims 6 and 17, Olszok et al. teach a vehicle exhaust muffler having variable damping characteristics, the muffler comprising a muffler housing (Fig.1, Item 2), an exhaust gas pipe (Fig.1, Item 3.1) terminating at one end thereof in an interior of the muffler housing, and a valve element (Fig.1, Item 5) having a closing member in the muffler housing adjacent the one end of the exhaust gas pipe, a guide rod (Fig.1, Item 13) having a first end coupled to the closing member, and a biasing element (Fig.1, Item 10) coupled to a second end of the guide rod, the biasing element located outside of and isolated from the muffler housing interior, the biasing element operative in a rest state to urge the closing element via the guide rod toward the one end of the exhaust gas pipe (Col.3, Lines 8 – 30); but fail to disclose wherein the guide rod have no internal passage.

The Examiner considers that it would have been an obvious matter of design choice to employ a solid guide rod as the Olszok et al. since applicant has not disclosed that having a solid guide rod solves any stated problem or is for any particular purpose

Art Unit: 2837

and it appears that the invention would perform equally well with a solid rod or one with an internal passage. Furthermore, the Examiner considers that the use of a guide rod with no internal passage would not depart from the scope of the Olszok et al. invention.

With respect to claims 7 – 9 and 15, Olszok et al. teach wherein the biasing element comprises a spring housing (Fig.1, Item 10) coupled to an exterior surface of the muffler housing and a biasing spring (Fig.2, Item 12.1) resident in the spring housing and coupled to the second end of the guide rod (Fig.2, Item 13); further comprising a spring guide (Fig.2, Item 11.1) coupled to the second end of the guide rod and shaped for receipt of one end of the biasing spring; and further comprising a guide sleeve (Fig.2) at least partially surrounding the guide rod and having a first end coupled to the biasing element.

With respect to claims 12 and 13, Olszok et al. teach wherein the one end of the gas pipe is flared radially outwardly in conical fashion (Figs.6 and 7, Item 3.1) and wherein at least a portion of the closing element is likewise conical (Figs.6 and 7, Item 5.1); and wherein the biasing spring is conical (Fig.2, Item 12.1).

With respect to claims 14 and 16, Olszok et al. teach wherein the spring housing is sealed; and further comprising a single biasing spring resident in the sealed spring housing and coupled to the second end of the guide rod, the spring solely operative against the second end of the solid guide rod (Fig.4).

2. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olszok et al. (US 5,821,474) in view of Uegane (US 6,554,099).

Olszok et al. teach the limitations discussed in a previous rejection, but fail to disclose further comprising a damping element coupled between the second end of the guide rod and the spring guide, and wherein the damping element comprises a ring of knotted wire.

On the other hand, Uegane teaches a vehicle exhaust muffler having variable damping characteristics, the muffler comprising a damping element (Fig.3, Item 40) coupled to valve body, and wherein the damping element comprises a ring of knotted wire (Col.5, Lines 8 – 15).

It would have been obvious to a person with ordinary skill in the art at the time of the invention was made to employ the Uegane damping element coupled between the Olszok et al. second end of the guide rod and the spring guide because it would prevent striking noise from being generated due to contact between the spring guide and the spring housing.

Response to Arguments

3. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. The Examiner considers that the patents to Olszok et al. and Uegane teach the limitations described in the claims as discussed above.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

Art Unit: 2837

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edgardo San Martin whose telephone number is (571) 272-2074. The examiner can normally be reached on 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2837

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Edgardo San Martín
Primary Examiner
Art Unit 2837
Class 181
January 3, 2006